

CLAIMS

1. A punch press tool comprising:

a cylindrical punch guide;

a punch body fit slidably into said punch guide; and

5 a punch tip for performing the press forming,

wherein said punch tip comprises an appropriate number of forming punch tips each including a press forming portion in a leading end thereof and an appropriate number of clamping punch tips each having shorter length compared with said forming punch tips; and

10 both of said tips are attached to said punch body detachably and exchangeably.

2. The punch press tool according to claim 1, wherein at least either said forming punch tips or said clamping punch tips are split into a plurality.

15 3. The punch press tool according to claim 2, wherein said punch guide is provided with a stripper in the leading end thereof, said stripper including a guide hole for receiving and guiding both of said tips; and

said stripper is provided with a projected portion for clamping a workpiece in a position adjacent to said guide hole located in the leading
20 end of said stripper.

4. A punch press tool comprising:

a die base;

a die body supported on said die base; and

a die tip held in said die body;

25 wherein said die tip comprises an appropriate number of forming die tips each including a forming portion in a leading end thereof and an appropriate number of sub die tips each having a smaller size compared

with said forming die tips; and

both of said tips are attached to said die body detachably and exchangeably.

5 5. The punch press tool according to claim 4, wherein at least either said forming die tips or said sub die tips are split into a plurality.

6. A punch press tool comprising:

a punch holder for punch press;

a sliding body supported slidably within said punch holder; and

10 a punch tip for performing press forming, said punch tip provided in a leading end of said sliding body;

wherein said punch tip comprises an appropriate number of long forming punch tips each including a press forming portion in a leading end thereof and an appropriate number of clamping punch tips each having a shorter length compared with said forming punch tips; and

15 said forming punch tips and said clamping punch tips are attached to said sliding body detachably and exchangeably.

7. The punch press tool according to claim 6, wherein at least either said forming punch tips or said clamping punch tips are split into a plurality.